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Winter 2008

CEG 460/660-01: Introduction to Software Computer Engineering

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CEG460/660 Introduction to Software Engineering

Winter Quarter 2008

Wright State University

Course Description
This course is concerned with the techniques of designing and constructing large programs. Some of the required basic concepts necessarily have to be developed using small programs as examples. To this extent, we also study programming-in-the-small. The overall objectives are to present an overview of issues in the development of software, to discuss terminology, to illustrate via example case studies, and to give sufficiently detailed advice on how to develop quality software. Hands-on experience is emphasized through the use of homework and a class project.

Professor
Dr. Thomas C. Hartrum
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Class Hours: T Th 6:05 PM-7:20 PM, Russ Engineering, Room 148

Text
Bernd Bruegge and Allen H. Dutoit, *Object-Oriented Software Engineering: Using UML, Patterns, and Java, 2nd Edition,* Prentice Hall, 2004.

Prerequisites
CS400 or CS600

Grading
Grading will be as follows:

Homework	15
Project	25
Midterm	30
Final Exam	30

Course grades will be based on the total score as follows. A: 90-100, B: 80-89, C:70-79, D: 60-69, F: below 60. Grades may be further curved if appropriate.

You may work with others on homework assignments, but you must turn in your own individual work. Homework that has obviously been copied will result in a grade of zero for both parties and will be reported to the Office of Judicial Affairs, as will any other form of cheating.
Ten percent will be deducted for unexcused late homework.
The project will be worked in teams of three. You may pick your partner(s) or I will pick them. More detail on the project will be handed out later.

Tentative Schedule Winter 2008

	Topic	Text
1	T (1/8) Introduction	Ch 1
	R (1/10) Software Lifecycles	Ch 15 (skip 15.2)
2	T (1/15) Requirements	Ch 2 (2.2.1, 2.4.1), Ch 4
	R (1/17) Ethics, Project	Handouts
3	T (1/22) UML, Analysis	Ch 2, Ch 5
	R (1/24) Analysis	Ch 2, Ch 5, Handouts
4	T (1/29) Object Design	Handouts
	R (1/31) Object Design	Handouts , Ch 8
5	T (2/5) Object Design	Ch 9, Ch 12
	R (2/7) Catch up; review	Ch 1-5, 8-9, 12, 15
6	T (2/12) In class midterm	Ch 1-5, 8-9, 12, 15
	R (2/14) System Design	Ch 6, 7
7	T (2/19) Implementation	Ch 10, Handouts
	R (2/21) Testing	Ch 11
8	T (2/26) Testing	Ch 11
	R (2/28) Testing	Ch 11
9	T (3/4) Structured Analysis	Handouts
	R (3/6) Structured Design	Handouts
10	T (3/11) Maintenance	Handouts
	R (3/13) Maintenance; review	Handouts; All
-	R (3/20) 8:00 PM - 10:00 PM Final Exam	All

NOTE: There will be *no* early final exam – plan your travel accordingly. In case of a legitimate conflict, a makeup final can be arranged.

Note: T = Tuesday, R = Thursday.